SAFETY DATA SHEET

1. Product and Company Identification

1.1 PRODUCT NAME: TRAXX FLOORJOINT (UNIT B)

1.2 USE OF PRODUCT Curing compound for Traxx Floorjoint Unit A.

1.3 SUPPLIER:

Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
Fax: +64 3 578 0919
Email: admin@equus.co.nz

1.4 EMERGENCY CONTACT:

National Poison Centre
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon – Fri

1.5 DATE OF PREPARATION: 15 October 2015

2. Hazards Identification

2.1 Hazardous Status:
Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

2.2 HSNO Group Standard:
Additives, Process Chemicals and Raw Materials (Toxic 6.7)

2.3 HSNO Classification:
6.1D (inhale), 6.3A, 6.4A, 6.5A, 6.5B, 6.7B, 6.9B

2.4 Signal Word:
Danger

2.5 Hazard Statements:

H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure

2.6 Prevention Statements:

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.

2.7 Response Statements:

P101	If medical advice is needed, have product container or label at hand.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.
P305 + P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

2.8 Storage Statements:

P405 Store locked up.

2.9 Disposal Statements:

P501 Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

3. Composition/Information on Ingredients

3.1 Hazardous Ingredients:

Polyisocyanate based on diphenylmethane diisocyanate.

CAS NO.	COMPONENT	CONCENTRATION %
9016-87-9	Diphenylmethane-diisocyanate, isomers and homologues.	<=50-<75
101-68-8	4,4 Diphenylmethane-diisocyanate	<=10-<20
5873-54-1	2,4 Diphenylmethane-diisocyanate	<=5-<10
2536-05-2	2,2 Methylenediphenyl- diisocyanate	<=1-<5

4. First Aid Measures

4.1 After Inhalation:
If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention if symptoms occur.

4.2 After Skin Contact:
If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Get medical attention if symptoms occur.

4.3 After Eye Contact:
If splashed in the eyes, wash out immediately with water. Obtain medical attention if irritation occurs.

4.4 After Ingestion:
If swallowed do NOT induce vomiting. Give water to drink. Get medical attention if symptoms occur.

4.5 Further Information:
Soiled, soaked clothing and shoes must be immediately removed, decontaminated and dispose of. For advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:
In case of fire, use water spray (fog), foam, dry chemical or CO2.

5.2 Unsuitable Extinguishing Media:
High volume water jet.

5.3 Hazards from the substance::
In a fire or if heated, a pressure increase will occur and the container may burst.

5.4 Hazardous Combustion Products:
Decomposition products may include: Carbon oxides, Nitrogen oxides, Isocyanate vapours, traces of Hydrogen cyanide.

5.5 Precautions in Connection with Fire:
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

5.6 Protective equipment for Fire Fighters:
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

6.1 Personal Precautions:
Wear appropriate personal protective equipment (see section 8). Provide adequate ventilation.

6.2 Environmental Precautions:
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Small Spill:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Large Spill:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

7. Handling and Storage

7.1 Handling:

Wear appropriate PPE, and ensure there is adequate ventilation and extraction on the work area. Avoid skin or eye contact, or breathing in the product.

7.2 Storage:

Keep container dry and tightly closed, in a cool, well-ventilated area, away from direct sunlight.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

Product/Ingredient	WES/TWA	WES/STEL	Reference
CAS 101-68-8	0.02mg/m³	0.07mg/m³	NZ WES
CAS 5873-54-1	0.02mg/m³	0.07mg/m³	NZ WES
CAS 2536-05-2	0.02mg/m³	0.07mg/m³	NZ WES
CAS 9016-87-9	0.02mg/m³	0.07mg/m³	NZ WES

8.2 Exposure Controls:

8.2.1 Engineering Controls:

General mechanical or local exhaust should be suitable to keep vapour concentrations below WES/TWA. Ventilation equipment should be explosion-proof when operating in flammable zones.

8.2.2 Personal Protection Equipment:

Respiratory Protection - Wear an air-fed respirator. Use a cartridge vapour respirator for short periods only.

Hand Protection – Wear chemical gloves. PVC, Polychlorpropene or Nitrile

Eye Protection – Wear chemical goggles/face protection

Body Protection – Wear suitable protective work clothing

9. Physical and Chemical Properties

9.1 General Information:

Physical State/Form	Liquid	
Colour	Brown	
Odour	Earthy, musty	
Pour point	~ -30°C	ISO 3016
Boiling Point	>300°C @ 1013 hPa	DIN 53171
Flash Point	~229^{0}C	DIN EN 22719
Vapour Pressure	~11 hPa @ 20^{0}C ~20 hPa @ 50°C ~22 hPa @ 55°C	EG A4
Water Solubility	Immiscible @ 15°C	
Density	1.23g/cm3 @ 20°C	DIN 51757
Viscosity	~145mPa.s @ 20°C	DIN 53019
Ignition temperature	>500°C	DIN 51794

10. Stability and Reaction

10.1 Stability:
Polymerises at about 300°C with evolution of CO2.

10.2 Possibility of hazardous reactions:
Exothermic reaction with amines and alcohols: reacts with water forming CO2; in closed containers, risk of bursting owing to increase of pressure.

10.3 Hazardous Decomposition Products:
Under normal conditions of storage and use, hazardous decomposition products should not be Produced.

11. Toxicological Information

11.1 Toxicity Data (species Rat, unless stated otherwise):

Product/ingredient	LD50 Oral – mg/kg	LD50 Dermal – mg/kg	LC50 Inhalation – mg/L/4hr
CAS 9016-87-9	>10,000	>9,400 – Rabbit	310*
CAS 101-68-8	>2,000	>9,400 – Rabbit	368*
CAS 5873-54-1	>2,000	>9,400 – Rabbit	387*
CAS 2536-05-2	>15,000	>9,400 – Rabbit	370*
*The substance was tested in a form (ie specific particle size distribution) that is different from the forms in which the substance is placed in the market and in which it can reasonably be expected to be used. Therefore a modified classification for acute inhalation toxicity is justified.			

11.2 Health effects:

11.2.1 Inhalation:
Harmful if inhaled. May irritate respiratory system.

11.2.2 Skin Contact:
Irritating.

11.2.3 Eye Contact:
Irritating.

11.2.4 Chronic Effects:

Skin and respiratory sensitisers. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure

12. Ecological Information

12.1 General Information:

This product is not classified as Ecotoxic according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

13. Disposal Consideration

13.1 Material

Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See council for disposal/recycling information.

14. Transport Information

14.1 Not regulated for Transport:

Keep separated from foodstuffs, acids and alkalis.
Avoid heat above +50°C
Keep dry.

15. Regulatory Information

15.1 HSNO Approval:

Approval Code	HSR 002512
HSNO Group Standard	Additives, Process Chemicals and Raw Material, Toxic (6.7)

15.2 HSNO Controls:

Approved Handler	Not required
Tracking	Not required

16. Other Information

16.1 Hazard Classification:

6.1D (inhale)	Substances that are acutely toxic – Harmful
6.3A	Substances that are irritating to the skin
6.4A	Substances that are irritating to the eye
6.5A	Substances that are respiratory sensitisers
6.5B	Substances that are contact sensitisers
6.7B	Substances that are suspected human carcinogens
6.9B	Substances that are harmful to human target organs or systems

16.2 Abbreviations/Terminology:

HSNO	Hazardous substances and New Organisms Act
CAS	Chemical Abstract Service
LD50, LC50	Lethal dose/Lethal Concentration – Dose or concentration required to produce the specified effect in 50% of the sample studied.
NZ WES	Workplace Exposure Standard (NZ Department of Business, Innovation and Employment)
TWA	Time weighted average exposure level designed to protect from the effects of long-term exposure.
STEL	Short-term Exposure Level (15 minutes)

16.3 The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.